

09/ 763/99

DaimlerChrysler AG

Stuttgart

Abstract

Synchronizing device for a shift transmission

A synchronizing device for a shift transmission is provided with at least one outer and one inner synchro ring and, if appropriate, at least one intermediate ring. The synchro rings and the intermediate ring in each case have conical surfaces, via which they are connected at least indirectly to one another. At least one of the synchro rings and/or the intermediate ring consists of a metallic basic material. At least one of the synchro rings and/or the intermediate ring consisting of the metallic basic material is nitride-hardened in such a way that, by process parameters being set during nitride-hardening, a non-metallic  $\gamma'$ -connecting layer and/or a non-metallic  $\epsilon$ -connecting layer is formed on the conical surface of the synchro ring and/or on the conical surface of the intermediate ring.

09763199.0453501